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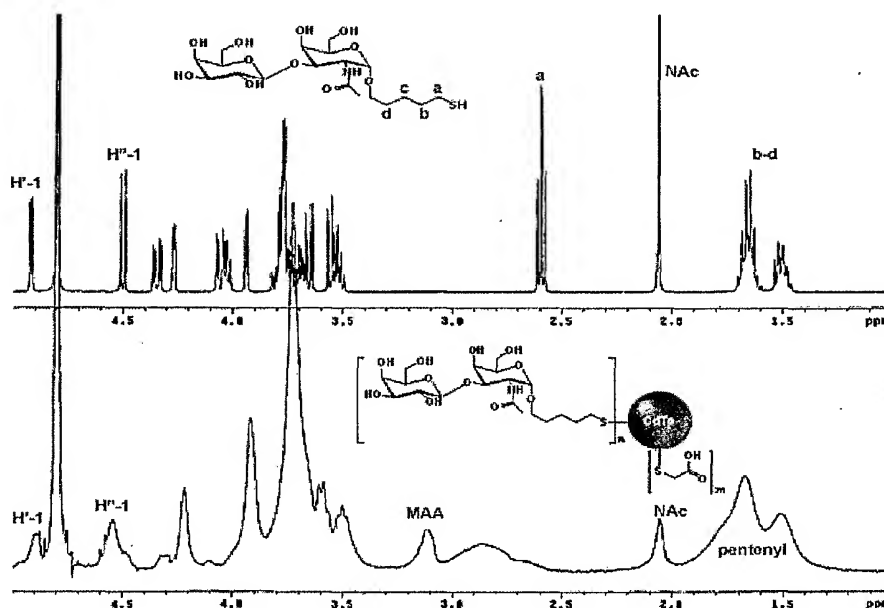
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(54) Title: CARBOHYDRATE-ENCAPSULATED QUANTUM DOTS FOR BIOLOGICAL IMAGING



(57) Abstract: Biofunctionalized quantum dots include a luminescence-enhancing mercaptoalkanoic acid and/or an ethylene glycol unit linked to the surface of a nanocrystalline core and a biofunctional group linked to the surface. The biofunctionalized quantum dots are made by an efficient synthesis method. The biofunctionalized quantum dots can be used in imaging or therapy applications.

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